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RD  
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/478,578    01/06/00    BROADLEY

S    995-P-3

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MMC2/1214

EXAMINER
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NGUYEN K	
ART UNIT	PAPER NUMBER

2817  
DATE MAILED:

12/14/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.  
**09/478,578**

Applicant(s)  
**Simon J. Broadley**

Examiner  
**Khanh V. Nguyen**

Group Art Unit  
**2817**



☒ Responsive to communication(s) filed on Jan 6, 2000

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Cini et al. (Patent 4,673,889).

Cini et al. (Fig. 1) disclose an audio power switching amplifier comprising: a Schmitt trigger circuit (19) may be read as a detector; transistor switches (41-44) may be read as an output stage; inductors (45 and 46) together with capacitor (47) may be read as a filter; and amplifier (14) may be read as an error amplifier circuit. The functions recited are inherently seen in the operation of the reference circuit.

3. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Nguyen et al. (Patent 5,949,282).

Nguyen et al. (Fig. 2A) disclose a Class D amplifier comprising: an error amplifier (207); pulse width modulator may be inherently seen having a detector; an output stage; and output

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filters (103 and 104). The functions recited are inherently seen in the operation of the reference circuit.

4. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Rodriguez (Patent 5,986,498).

Rodriguez (Fig. 1) discloses a Class D amplifier comprising: an error amplifier (16); a zero crossing detector (20); an output stage including switches (54 and 60); and output filters (62, 64 and 66, 68). The functions recited are inherently seen in the operation of the reference circuit.

### *Conclusion*

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following U.S. Patents contain teaching of Class D amplifier:

Vesce	U.S. Patent 4,649,467
Wagner et al.	U.S. Patent 5,410,592
Danz et al.	U.S. Patent 5,805,020
Myers et al.	U.S. Patent 5,838,193
Hamo	U.S. Patent 6,016,075
Pullen et al.	U.S. Patent 6,118,336


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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Khanh Van Nguyen whose telephone number is (703) 306-9058.

The examiner can normally be reached on Monday to Friday from 7:30 a.m to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal, can be reached on (703) 308-4909. The fax phone number for this Group is (703) 305-3432.

KVN

  
Robert Pascal  
Supervisor of Examiners  
Telephone Number 703

12/12/00